

# Service Service Service

# Service Manual

Input : 13,2 V/10 A  $\overline{\sim}$   
Output : 220 V/55 W  $\sim$

Undervoltage protection : 11,5 V  
Overvoltage protection : 14,5 V

## GB Adjustment undervoltage

- Use a dual beam oscilloscope (2V/div.; 0.5 $\mu$ s/div.). Calibrate the two channels for the same 0V DC level. Connect probe A to pin 2 of IC 7001. Connect probe B to pin 3 of IC 7001. Connect ground to pin 7 of IC 7001. Connect the collector of transistor 7041 to ground. As a result the multi-vibrator is switched off. Connect a battery voltage of 11.0V  $\pm$  0.1V.
- Turn potentiometer 3070 fully counterclockwise. Then turn it slowly clockwise until the voltages at pin 2 and 3 of IC 7001 are perfectly equal. If the critical point is exceeded (the voltage at pin 3 is higher than at pin 2), the adjustment procedure must be repeated as of point b.

## F Ajustage sous-tension

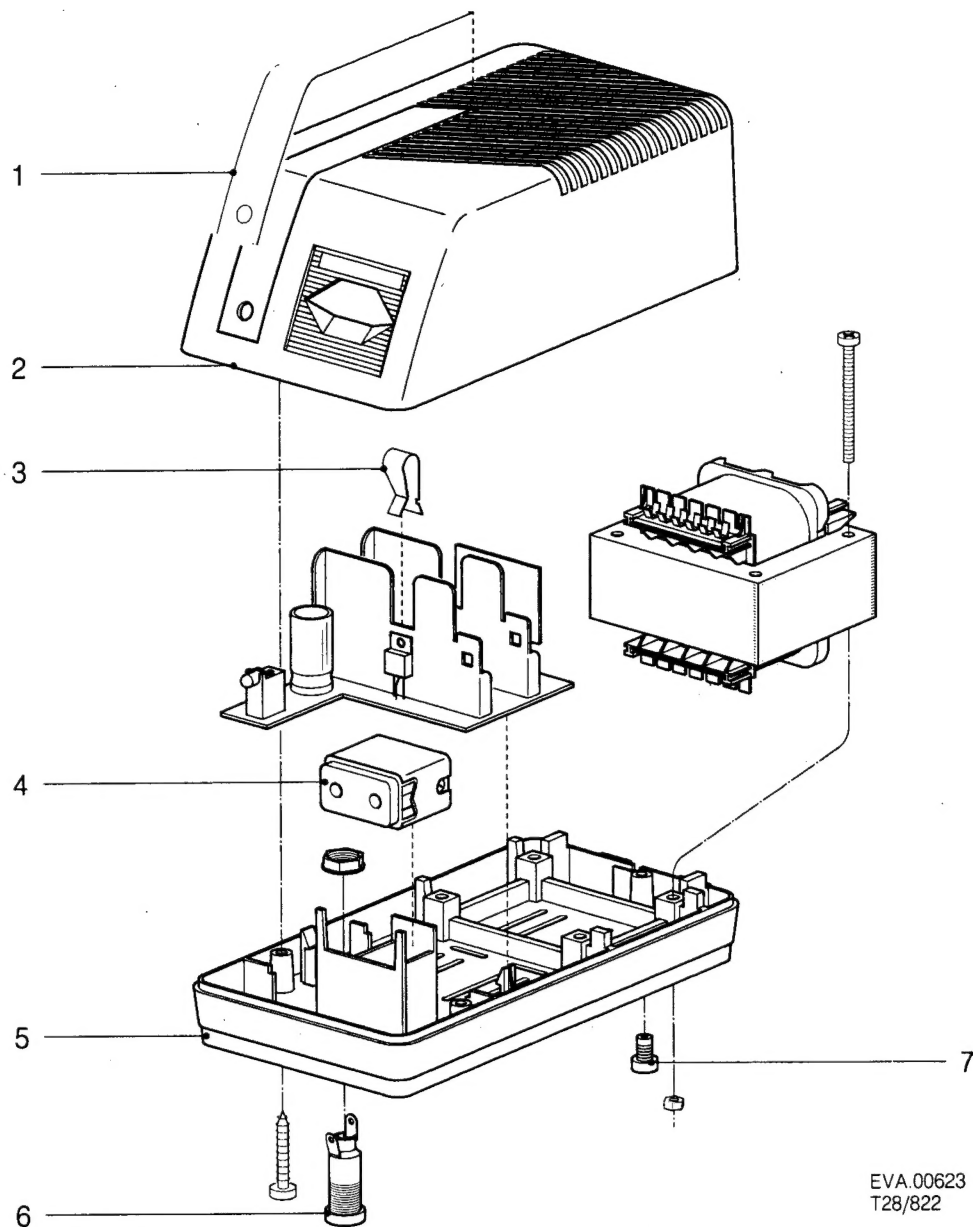
- Utiliser un oscilloscope double faisceau (2V/div, 0,5 $\mu$ sec/div). Calibrer les deux voies au niveau DC identique. Brancher la sonde A à la broche 2 de l'IC 7001. Brancher la sonde B à la broche 3 de l'IC 7001. Brancher la terre à la broche 7 de l'IC 7001. Connecter le collecteur du transistor 7041 à la masse. Ceci coupe le multivibrateur. Appliquer une tension de pile de 11,0V  $\pm$  0,1V.
- Tourner le potentiomètre 3070 à fond dans le sens anti-horaire. Le retourner lentement dans le sens horaire jusqu'à ce que les tensions sur les broches 2 et 3 de l'IC 7001, soient exactement au même niveau. Au cas où le point critique a été dépassé (si la tension sur la broche 3 est supérieure à celle de la broche 2), la procédure d'ajustage doit être reprise à partir du point b.

## NL Afregeling ondervoltage

- Gebruik een dubbelstraals oscilloscoop (2V/div, 0,5 $\mu$ s/div.). Calibreer beide kanalen op hetzelfde 0V DC-level. Probe A aansluiten op pen 2 van IC 7001. Probe B aansluiten op pen 3 van IC 7001. Aarde aansluiten op pen 7 van IC 7001. Sluit de collector van transistor 7041 aan massa. Hierdoor wordt de multivibrator uitgeschakeld. Sluit een batterij spanning van 11,0V  $\pm$  0,1V aan.
- Draai potentiometer 3070 geheel linksom. Regel deze nu langzaam rechtsom, totdat de spanningen op pen 2 en 3 van IC 7001 precies aan elkaar gelijk zijn. Wanneer het kritieke punt overschreden wordt (de spanning op pen 3 is hoger dan op pen 2), moet de afregelprocedure vanaf punt b herhaald worden.

## D Einstellung der Unterspannung





- Doppelstrahloszilloskop (2V/Teilung, 0,5 $\mu$ s/Teilung) einsetzen. Beide Kanäle auf das gleiche 0-Volt-Gleichspannungsniveau kalibrieren. Sonde A an Anschluss 2 von IC 7001 anschliessen. Sonde B an Anschluss 3 von IC 7001 anschliessen. Masse an Anschluss 7 von IC 7001 anschliessen. Den Kollektor von Transistor 7041 an Masse legen. Dadurch wird der Multivibrator ausgeschaltet. Eine batteriespannung von 11,0V  $\pm$  0,1V anlegen.
- Potentiometer 3070 ganz linksherum drehen. Dieses nun langsam rechtsherum regeln, bis die Spannungen an Anschluss 2 und 3 von IC 7001 einander genau gleich sind. Wenn der kritische Punkt überschritten wird (die Spannung an Anschluss 3 ist höher als an Anschluss 2), muss das Einstellverfahren von Punkt b an wiederholt werden.






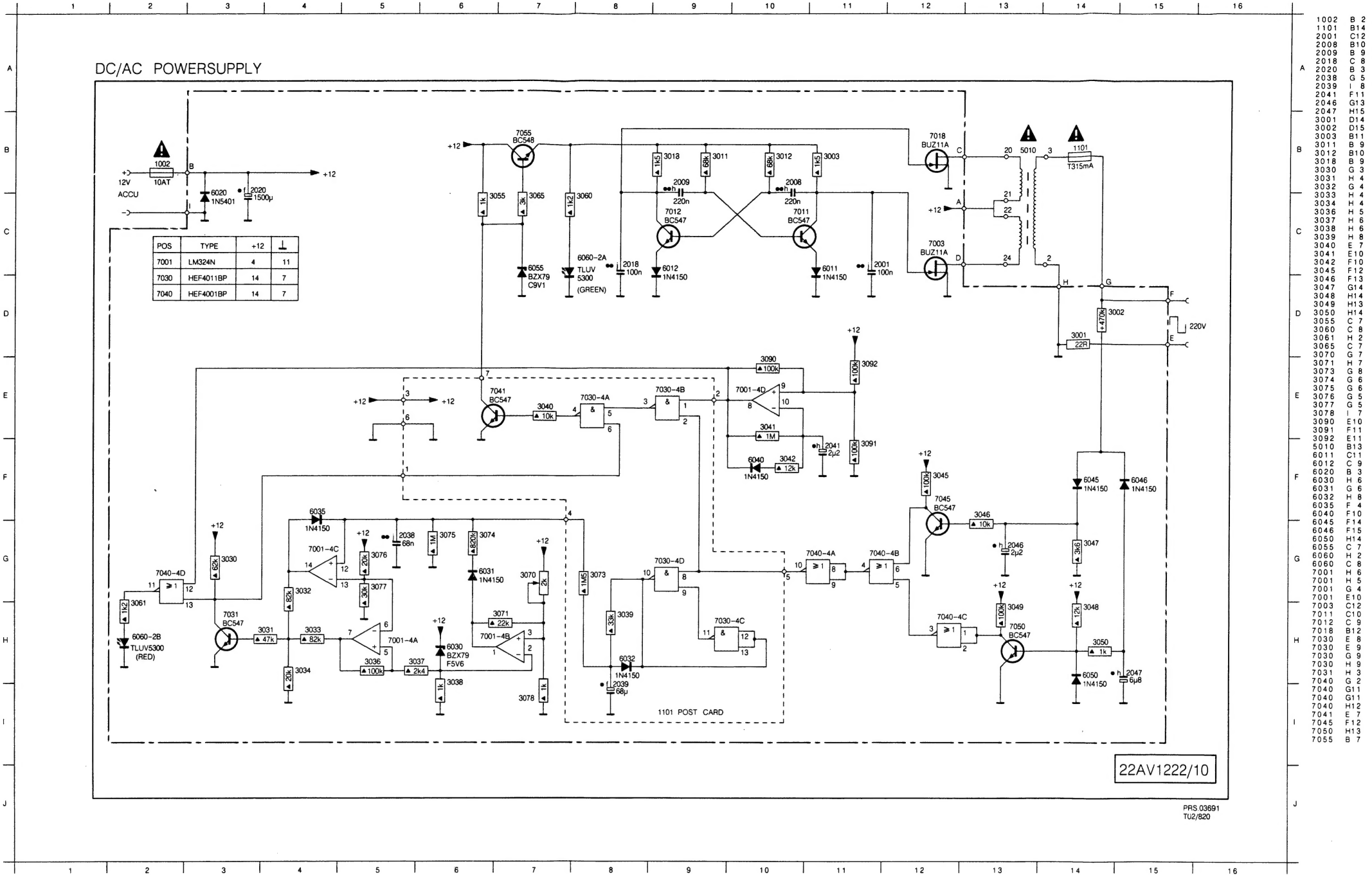
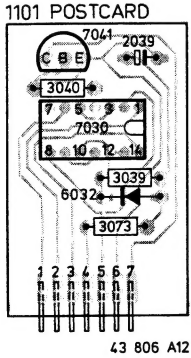
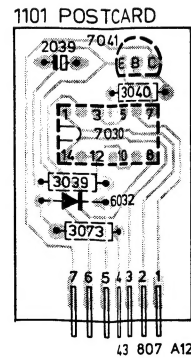
EVA.00623  
T28/822

#### Mechanical Parts









1	4822 454 12175	Ornamental plate
2	4822 432 92238	Cover
3	4822 492 63524	Spring
4	4822 267 30973	Socket outlet
5	4822 432 92245	Console
6	5322 256 30224	Fuseholder
7	4822 462 40851	Foot

Various			
Holder for LED		4822 256 91299	
Battery Cable Assy		4822 321 22907	
			
1001	4822 253 30014	T315 mA	
1002	4822 253 30032	T10A	
			
3001	4822 113 41152	22 Ω 7 W	
3070	4822 100 11368	2 kΩ Potm. Lin.	
			
1N4150	4822 130 30841		
1N5401	5322 130 34939		
BZX79-C5V6	4822 130 34173		
			
TLUV5300	4822 209 72895		





			
BC 547	4822 130 44257		
BC 548	4822 130 40938		
BUZ 11 A	4822 130 61253		
			
HEF 4001 BP	4822 209 10246		
HEF 4011 BP	4822 209 10247		
LM 324 N	4822 209 80587		
			
5010	4822 146 30691	Transformer	



SYMBOLS USED IN CIRCUIT DIAGRAMS

SYMBOL	TYPE	$P_{70}^{\circ}$ amp	TOLERANCE	SERIES
	SFR16T	0.5	1E - 3M 5%	E24
	SFR25H	0.5	1E - 10M 5%	E24
	MRS25	0.6	1E - 1M 1%	E24
	MR30	0.5	1E - 1M 1% (2%)	E24
	VR37	0.5	220K - 33M 5%	E24
	PR37	16	1E - 1M 5%	E24
	VR68	1	100K - 68M 5%	E24
	MRS 16T	0.4	10R - 100K	E24E96

SYMBOL	TYPE	VOLTAGE DC	TOLERANCE
	POLYESTER FLATFOIL	SEE NOTE	10%
	PLATE CERAMIC	SEE NOTE	DEPENDING ON CAPACITY
	ELCO MINATURE SINGLE	SEE NOTE	-10-50%
	ELCO SINGLE ENDED	SEE NOTE	±20%

NOTE:

a	f = 25V	g = 40V	h = 63V	i = 100V	j = 125V	k = 150V	l = 160V	m = 200V	n = 250V	o = 300V	p = 350V	q = 400V	r = 450V	s = 500V	t = 550V	u = 600V	v = 630V	w = 680V	x = 700V	y = 750V	z = 800V	A = 850V	B = 900V	C = 950V	D = 1000V	E = 1050V	F = 1100V	G = 1150V	H = 1200V	I = 1250V	J = 1300V	K = 1350V	L = 1400V	M = 1450V	N = 1500V	O = 1550V	P = 1600V	Q = 1650V	R = 1700V	S = 1750V	T = 1800V	U = 1850V	V = 1900V	W = 1950V	X = 2000V	Y = 2050V	Z = 2100V	A = 2150V	B = 2200V	C = 2250V	D = 2300V	E = 2350V	F = 2400V	G = 2450V	H = 2500V	I = 2550V	J = 2600V	K = 2650V	L = 2700V	M = 2750V	N = 2800V	O = 2850V	P = 2900V	Q = 2950V	R = 3000V	S = 3050V	T = 3100V	U = 3150V	V = 3200V	W = 3250V	X = 3300V	Y = 3350V	Z = 3400V	A = 3450V	B = 3500V	C = 3550V	D = 3600V	E = 3650V	F = 3700V	G = 3750V	H = 3800V	I = 3850V	J = 3900V	K = 3950V	L = 4000V	M = 4050V	N = 4100V	O = 4150V	P = 4200V	Q = 4250V	R = 4300V	S = 4350V	T = 4400V	U = 4450V	V = 4500V	W = 4550V	X = 4600V	Y = 4650V	Z = 4700V	A = 4750V	B = 4800V	C = 4850V	D = 4900V	E = 4950V	F = 5000V	G = 5050V	H = 5100V	I = 5150V	J = 5200V	K = 5250V	L = 5300V	M = 5350V	N = 5400V	O = 5450V	P = 5500V	Q = 5550V	R = 5600V	S = 5650V	T = 5700V	U = 5750V	V = 5800V	W = 5850V	X = 5900V	Y = 5950V	Z = 6000V	A = 6050V	B = 6100V	C = 6150V	D = 6200V	E = 6250V	F = 6300V	G = 6350V	H = 6400V	I = 6450V	J = 6500V	K = 6550V	L = 6600V	M = 6650V	N = 6700V	O = 6750V	P = 6800V	Q = 6850V	R = 6900V	S = 6950V	T = 7000V	U = 7050V	V = 7100V	W = 7150V	X = 7200V	Y = 7250V	Z = 7300V	A = 7350V	B = 7400V	C = 7450V	D = 7500V	E = 7550V	F = 7600V	G = 7650V	H = 7700V	I = 7750V	J = 7800V	K = 7850V	L = 7900V	M = 7950V	N = 8000V	O = 8050V	P = 8100V	Q = 8150V	R = 8200V	S = 8250V	T = 8300V	U = 8350V	V = 8400V	W = 8450V	X = 8500V	Y = 8550V	Z = 8600V	A = 8650V	B = 8700V	C = 8750V	D = 8800V	E = 8850V	F = 8900V	G = 8950V	H = 9000V	I = 9050V	J = 9100V	K = 9150V	L = 9200V	M = 9250V	N = 9300V	O = 9350V	P = 9400V	Q = 9450V	R = 9500V	S = 9550V	T = 9600V	U = 9650V	V = 9700V	W = 9750V	X = 9800V	Y = 9850V	Z = 9900V	A = 9950V	B = 10000V	C = 10050V	D = 10100V	E = 10150V	F = 10200V	G = 10250V	H = 10300V	I = 10350V	J = 10400V	K = 10450V	L = 10500V	M = 10550V	N = 10600V	O = 10650V	P = 10700V	Q = 10750V	R = 10800V	S = 10850V	T = 10900V	U = 10950V	V = 11000V	W = 11050V	X = 11100V	Y = 11150V	Z = 11200V	A = 11250V	B = 11300V	C = 11350V	D = 11400V	E = 11450V	F = 11500V	G = 11550V	H = 11600V	I = 11650V	J = 11700V	K = 11750V	L = 11800V	M = 11850V	N = 11900V	O = 11950V	P = 12000V	Q = 12050V	R = 12100V	S = 12150V	T = 12200V	U = 12250V	V = 12300V	W = 12350V	X = 12400V	Y = 12450V	Z = 12500V	A = 12550V	B = 12600V	C = 12650V	D = 12700V	E = 12750V	F = 12800V	G = 12850V	H = 12900V	I = 12950V	J = 13000V	K = 13050V	L = 13100V	M = 13150V	N = 13200V	O = 13250V	P = 13300V	Q = 13350V	R = 13400V	S = 13450V	T = 13500V	U = 13550V	V = 13600V	W = 13650V	X = 13700V	Y = 13750V	Z = 13800V	A = 13850V	B = 13900V	C = 13950V	D = 14000V	E = 14050V	F = 14100V	G = 14150V	H = 14200V	I = 14250V	J = 14300V	K = 14350V	L = 14400V	M = 14450V	N = 14500V	O = 14550V	P = 14600V	Q = 14650V	R = 14700V	S = 14750V	T = 14800V	U = 14850V	V = 14900V	W = 14950V	X = 15000V	Y = 15050V	Z = 15100V	A = 15150V	B = 15200V	C = 15250V	D = 15300V	E = 15350V	F = 15400V	G = 15450V	H = 15500V	I = 15550V	J = 15600V	K = 15650V	L = 15700V	M = 15750V	N = 15800V	O = 15850V	P = 15900V	Q = 15950V	R = 16000V	S = 16050V	T = 16100V	U = 16150V	V = 16200V	W = 16250V	X = 16300V	Y = 16350V	Z = 16400V	A = 16450V	B = 16500V	C = 16550V	D = 16600V	E = 16650V	F = 16700V	G = 16750V	H = 16800V	I = 16850V	J = 16900V	K = 16950V	L = 17000V	M = 17050V	N = 17100V	O = 17150V	P = 17200V	Q = 17250V	R = 17300V	S = 17350V	T = 17400V	U = 17450V	V = 17500V	W = 17550V	X = 17600V	Y = 17650V	Z = 17700V	A = 17750V	B = 17800V	C = 17850V	D = 17900V	E = 17950V	F = 18000V	G = 18050V	H = 18100V	I = 18150V	J = 18200V	K = 18250V	L = 18300V	M = 18350V	N = 18400V	O = 18450V	P = 18500V	Q = 18550V	R = 18600V	S = 18650V	T = 18700V	U = 18750V	V = 18800V	W = 18850V	X = 18900V	Y = 18950V	Z = 19000V	A = 19050V	B = 19100V	C = 19150V	D = 19200V	E = 19250V	F = 19300V	G = 19350V	H = 19400V	I = 19450V	J = 19500V	K = 19550V	L = 19600V	M = 19650V	N = 19700V	O = 19750V	P = 19800V	Q = 19850V	R = 19900V	S = 19950V	T = 20000V	U = 20050V	V = 20100V	W = 20150V	X = 20200V	Y = 20250V	Z = 20300V	A = 20350V	B = 20400V	C = 20450V	D = 20500V	E = 20550V	F = 20600V	G = 20650V	H = 20700V	I = 20750V	J = 20800V	K = 20850V	L = 20900V	M = 20950V	N = 21000V	O = 21050V	P = 21100V	Q = 21150V	R = 21200V	S = 21250V	T = 21300V	U = 21350V	V = 21400V	W = 21450V	X = 21500V	Y = 21550V	Z = 21600V	A = 21650V	B = 21700V	C = 21750V	D = 21800V	E = 21850V	F = 21900V	G = 21950V	H = 22000V	I = 22050V	J = 22100V	K = 22150V	L = 22200V	M = 22250V	N = 22300V	O = 22350V	P = 22400V	Q = 22450V	R = 22500V	S = 22550V	T = 22600V	U = 22650V	V = 22700V	W = 22750V	X = 22800V	Y = 22850V	Z = 22900V	A = 22950V	B = 23000V	C = 23050V	D = 23100V	E = 23150V	F = 23200V	G = 23250V	H = 23300V	I = 23350V	J = 23400V	K = 23450V	L = 23500V	M = 23550V	N = 23600V	O = 23650V	P = 23700V	Q = 23750V	R = 23800V	S = 23850V	T = 23900V	U = 23950V	V = 24000V	W = 24050V	X = 24100V	Y = 24150V	Z = 24200V	A = 24250V	B = 24300V	C = 24350V	D = 24400V	E = 24450V	F = 24500V	G = 24550V	H = 24600V	I = 24650V	J = 24700V	K = 24750V	L = 24800V	M = 24850V	N = 24900V	O = 24950V	P = 25000V	Q = 25050V	R = 25100V	S = 25150V	T = 25200V	U = 25250V	V = 25300V	W = 25350V	X = 25400V	Y = 25450V	Z = 25500V	A = 25550V	B = 25600V	C = 25650V	D = 25700V	E = 25750V	F = 25800V	G = 25850V	H = 25900V	I = 25950V	J = 26000V	K = 26050V	L = 26100V	M = 26150V	N = 26200V	O = 26250V	P = 26300V	Q = 26350V	R = 26400V	S = 26450V	T = 26500V	U = 26550V	V = 26600V	W = 26650V	X = 26700V	Y = 26750V	Z = 26800V	A = 26850V	B = 26900V	C = 26950V	D = 27000V	E = 27050V	F = 27100V	G = 27150V	H = 27200V	I = 27250V	J = 27300V	K = 27350V	L = 27400V	M = 27450V	N = 27500V	O = 27550V	P = 27600V	Q = 27650V	R = 27700V	S = 27750V	T = 27800V	U = 27850V	V = 27900V	W = 27950V	X = 28000V	Y = 28050V	Z = 28100V	A = 28150V	B = 28200V	C = 28250V	D = 28300V	E = 28350V	F = 28400V	G = 28450V	H = 28500V	I = 28550V	J = 28600V	K = 28650V	L = 28700V	M = 28750V	N = 28800V	O = 28850V	P = 28900V	Q = 28950V	R = 29000V	S = 29050V	T = 29100V	U = 29150V	V = 29200V	W = 29250V	X = 29300V	Y = 29350V	Z = 29400V	A = 29450V	B = 29500V	C = 29550V	D = 29600V	E = 29650V	F = 29700V	G = 29750V	H = 29800V	I = 29850V	J = 29900V	K = 29950V	L = 30000V	M = 30050V	N = 30100V	O = 30150V	P = 30200V	Q = 30250V	R = 30300V	S = 30350V	T = 30400V	U = 30450V	V = 30500V	W = 30550V	X = 30600V	Y = 30650V	Z = 30700V	A = 30750V	B = 30800V	C = 30850V	D = 30900V	E = 30950V	F = 31000V	G = 31050V	H = 31100V	I = 31150V	J = 31200V	K = 31250V	L = 31300V	M = 31350V	N = 31400V	O = 31450V	P = 31500V	Q = 31550V	R = 31600V	S = 31650V	T = 31700V	U = 31750V	V = 31800V	W = 31850V	X = 31900V	Y = 31950V	Z = 32000V	A = 32050V	B = 32100V	C = 32150V	D = 32200V	E = 32250V	F = 32300V	G = 32350V	H = 32400V	I = 32450V	J = 32500V	K = 32550V	L = 32600V	M = 32650V	N = 32700V	O = 32750V	P = 32800V	Q = 32850V	R = 32900V	S = 32950V	T = 33000V	U = 33050V	V = 33100V	W = 33150V	X = 33200V	Y = 33250V	Z = 33300V	A = 33350V	B = 33400V	C = 33450V	D = 33500V	E = 33550V	F = 33600V	G = 33650V	H = 33700V	I = 33750V	J = 33800V	K = 33850V	L = 33900V	M = 33950V	N = 34000V	O = 34050V	P = 34100V	Q = 34150V	R = 34200V	S = 34250V	T = 34300V	U = 34350V	V = 34400V	W = 34450V	X = 34500V	Y = 34550V	Z = 34600V	A = 34650V	B = 34700V	C = 34750V	D = 34800V	E = 34850V	F = 34900V	G = 34950V	H = 35000V	I = 35050V	J = 35100V	K = 35150V	L = 35200V	M = 35250V	N = 35300V	O = 35350V	P = 35400V	Q = 35450V	R = 35500V	S = 35550V	T = 35600V	U = 35650V	V = 35700V	W = 35750V	X = 35800V	Y = 35850V	Z = 35900V	A = 35950V	B = 36000V	C = 36050V	D = 36100V	E = 36150V	F = 36200V	G = 36250V	H = 36300V	I = 36350V	J = 36400V	K = 36450V	L = 36500V	M = 36550V	N = 36600V	O = 36650V	P = 36700V	Q = 36750V	R = 36800V	S = 36850V	T = 36900V	U = 36950V	V = 37000V	W = 37050V	X = 37100V	Y = 37150V	Z = 37200V	A = 37250V	B = 37300V	C = 37350V	D = 37400V	E = 37450V	F = 37500V	G = 37550V	H = 37600V	I = 37650V	J = 37700V	K = 37750V	L = 37800V	M = 37850V	N = 37900V	O = 37950V	P = 38000V	Q = 38050V	R = 38100V	S = 38150V	T = 38200V	U = 38250V	V = 38300V	W = 38350V	X = 38400V	Y = 38450V	Z = 38500V	A = 38550V	B = 38600V	C = 38650V	D = 38700V	E = 38750V	F = 38800V	G = 38850V	H = 38900V	I = 38950V	J = 39000V	K = 39050V	L = 39100V	M = 39150V	N = 39200V	O = 39250V	P = 39300V	Q = 39350V	R = 39400V	S = 39450V	T = 39500V	U = 39550V	V = 39600V	W = 39650V	X = 39700V	Y = 39750V	Z = 39800V	A = 39850V	B = 39900V	C = 39950V	D = 40000V	E = 40050V	F = 40100V	G = 40150V	H = 40200V	I = 40250V	J = 40300V	K = 40350V	L = 40400V	M = 40450V	N = 40500V	O = 40550V	P = 40600V	Q = 40650V	R = 40700V	S = 40750V	T = 40800V	U = 40850V	V = 40900V	W = 40950V	X = 41000V	Y = 41050V	Z = 41100V	A = 41150V	B = 41200V	C = 41250V	D = 41300V	E = 41350V	F = 41400V	G = 41450V	H = 41500V	I = 41550V	J = 41600V	K = 41650V	L = 41700V	M = 41750V	N = 41800V	O = 41850V	P = 41900V	Q = 41950V	R = 42000V	S = 42050V	T = 42100V	U = 42150V	V = 42200V	W = 42250V	X = 42300V	Y = 42350V	Z = 42400V	A = 42450V	B = 42500V	C = 42550V	D = 42600V	E = 42650V	F = 42700V	G = 42750V	H = 42800V	I = 42850V	J = 42900V	K = 42950V	L = 43000V	M = 43050V	N = 43100V	O = 43150V	P = 43200V	Q = 43250V	R = 43300V	S = 43350V	T = 43400V	U = 43450V	V = 43500V	W = 43550V	X = 43600V	Y = 43650V	Z = 43700V	A = 43750V	B =
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